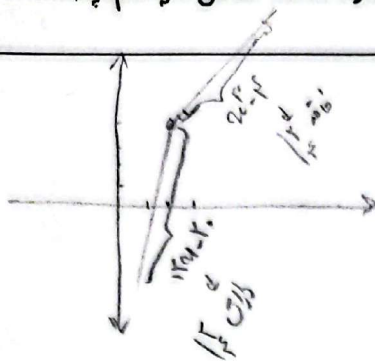


نام و نام خانوادگی کلاس شماره تکلیف شماره پاسخنامه تشریحی
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$$a^r \cdot a^s = a^{r+s} \rightarrow a^r \cdot a^s = a^{r+s} \Rightarrow (a-r)(a+r) \geq 0$$

~~$a = r$~~

$$\begin{array}{r} -x \quad y \\ \hline - \quad + \quad + \end{array}$$

$$\alpha \geq -\frac{1}{2}$$

$$\frac{a^x - x}{12a - 10}$$

$f'(r) = r \rightarrow f(r) = \frac{1}{2} r^2 + C \rightarrow C = -10$ دقت!

الف) $f(v) = (v_x v) - 2$ ~~$= 1$~~ $||$

$$\therefore f(f(x)) = r(r(x) - r) - r \longrightarrow 9x - 15 - r \longrightarrow \boxed{9x - r}$$

$$y = \frac{ax}{x-1} \xrightarrow{\frac{ax}{y}} \frac{ax}{y-1} = x \frac{\frac{ax}{y}}{\frac{ax}{y}-1} = \frac{-x}{x-a} \rightarrow \frac{x}{x-a} = y$$

اسمہ کی

$$A \mid \frac{r_u}{u} \rightarrow \frac{r_u}{r_u - u} = a \rightarrow \frac{r_u}{a} = u \rightarrow \boxed{a = r} \checkmark$$

جواب آخرین صفی! ✓
 $f^{-1} = \{(5, 2), (7, 4), (2, 7), (4, 9)\}$ $g^{-1} = \{(2, 3), (3, 1), (5, 7)\}$ ✓

الف) $f \circ g = \{ (f, v), (f, d), (v, r), (r, y) \} \rightarrow$

$\tau_1 f \circ f = \{(x, f), (f, f), (f, v), (v, v)\} \rightarrow \begin{matrix} \text{fok} & \text{fok} \\ \text{fok} & \text{fok} \\ \text{fok} & \text{fok} \\ \text{fok} & \text{fok} \end{matrix}$

$$c) \log: \{ \omega, \tau \} \rightarrow \mathbb{Z} \quad \gamma_{\omega}^{-1} \tau \rightarrow \tau \rightarrow \tau \rightarrow 0 \rightarrow \tau$$

c) $\varphi \circ f: \{(\omega, 1), (\gamma, 5), (\gamma, 8)\} \rightarrow \omega_0 \neq \omega_1 \rightarrow \Delta \rightarrow \Delta \rightarrow \gamma \rightarrow \gamma$

$$\text{foy}^{-1}: \{(\cancel{1,1}), (\cancel{1,1}), (\cancel{1,1})\} = \emptyset$$

$$g^{-1} \{ (1,2), (3,4), (2,4) \}$$

$$\frac{h}{f} = \left\{ 1, \frac{1}{\lambda}, \frac{1}{\lambda} \right\}$$

$$\text{Tag}^{-1}(u) = \{(1, \kappa)(\tau, \wedge)(\Delta, \circ)\}$$

$$\frac{h}{f_{\text{avg}}} = \left\{ \left(1, \frac{1}{r}\right) \left(3, \frac{1}{r}\right) \right\}$$

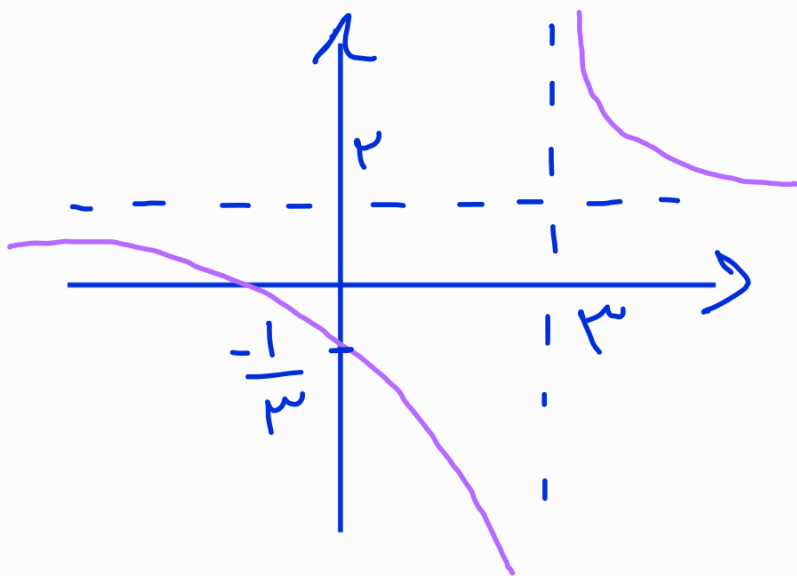
۴ پاسخی به این سوال درستی بخور!

$$f \circ f^{-1} = \begin{array}{ccc} 5 & \rightarrow & 2 \rightarrow 5 \\ 7 & \rightarrow & 4 \rightarrow 7 \\ 2 & \rightarrow & 7 \rightarrow 2 \\ 9 & \rightarrow & 9 \rightarrow 9 \end{array}$$

$$f^{-1} \circ f(x) = \{(5, 5)(7, 7)(9, 9)\}$$

$$f \circ g^{-1}(x) = \{(2, 5)(5, 7)\}$$

$$g^{-1} \circ f(x) = \{(5, 9)(7, 2)(9, 8)\}$$



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